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Titolo	Fiber Reinforced Polymer (FRP) Composites in Ballistic Protection : Microstructural and Micromechanical Perspectives / / by Shubham, Bankim Chandra Ray
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Nota di contenuto	Introduction to Composite Materials -- Polymer Matrix Materials for Ballistic Armors -- Fiber reinforcements -- Characterization techniques in different strain-rate spectrum -- Microstructural Failure Mechanisms Analysis -- Micromechanics of FRP Composites and the Analytical Approach for Ballistic Response -- Recent development of constitutive models for strain-rate sensitive FRP composite materials -- High-Velocity Impact Modeling in Materials Science: A Multiscale Perspective -- Interface Engineering.
Sommario/riassunto	This book highlights the pulchritudinous features of FRP composites emphasizing failure criteria referring to microstructural as well as micromechanical aspects. The potential and promises of this class of material as being explored for supercritical applications necessitate the analysis and assessment of FRPs with a spectrum of low to high strain

rates. Additionally, constitutive modeling and shock properties of polymeric composites along with the data processing techniques and relevant theories for different characterization methods are conversed. The findings of previous studies available on mechanical characteristics of polymer composites under quasi-static and high-strain-rate circumstances are also discussed. The dearth of open literature and limited information culminate the need for this book which may eventually bridge the existing gap. .
